Venu Satuluri

10+ years of applying ML to real-world problems with a focus on accuracy, scalability, and simplicity.

PERSONAL DATA

EMAIL: venu.satuluri@gmail.com

GOOGLE SCHOLAR: Link to Scholar profile

LINKEDIN: https://www.linkedin.com/in/venusatuluri

WEBSITE: https://venusatuluri.github.io https://github.com/venusatuluri

WORK EXPERIENCE

Nov 2022 | Principa

Principal Machine Learning Engineer at TWITTER

MAY 2012

Personalization and Recommendations

During my decade at Twitter, I played a key role in several ground-breaking products and improvements in the space of recommendations and machine learning. During 2013-'16, I co-founded and was lead engineer for MagicRecs, a key growth driver for Twitter. In '17, I created SimClusters, which enabled a quantum leap in Twitter's ability to model user interests and spin up new recommendations products effortlessly. I was group tech lead for Interests, the top company initiative during 2020-'21. I joined as a MLE II in 2012 and held the role of a Principal ML Engineer at the time I left.

MARCH 2012

Ph.D. Candidate

AUG 2006

Data Mining Research Lab, The Ohio State University

Did research in graph clustering (a.k.a. community discovery from networks) and similarity search algorithms. My research was published in the top venues of the field such as KDD, SIGMOD, and VLDB.

JUL 2005 D. E. Shaw India Software

Software Engineer

SELECTED CODE

JUN 2006

SBF Sparse Binary Factorization, community discovery from billion-node graphs, used in SimClusters.

Analyses A repo with notebooks doing various ML analyses e.g. comparing different Transformer implementations.

SELECTED RESEARCH PUBLICATIONS

KDD 2020 Simclusters: Community-based representations for heterogeneous recommendations at Twitter

Venu Satuluri, Yao Wu, Xun Zheng et. al.

PVLDB 2014 Real-time Twitter recommendation: online motif detection in large dynamic graphs

Pankaj Gupta, Venu Satuluri, Ajeet Grewal et. al

PVLDB 2012 Bayesian locality sensitive hashing for fast similarity search

Venu Satuluri and Srinivasan Parthasarathy

SIGMOD 2011 Local graph sparsification for scalable clustering

Venu Satuluri, Srinivasan Parthasarathy, and Yiye Ruan

KDD 2009 Scalable graph clustering using stochastic flows: applications to community discovery

Venu Satuluri and Srinivasan Parthasarathy

EDUCATION

MAY 2012 Ph.D. in Computer Science, The Ohio State University

Thesis: "Scalable Clustering for Modern Networks"

MAY 2005 B.Tech. in COMPUTER SCIENCE

National Institute of Technology Karnataka, India

AWARDS

2013 ACM SIGKDD Dissertation Awards, Honorable Mention

2011 Outstanding Graduate Research Award

Dept. of Computer Science and Engineering, The Ohio State University